

MARBEC SRL

Revision no. 5

Revision date 02/14/2022

0030230 - OX FIVE PLUS

Printed 02/14/2022

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Supersedes Revision:4 (Revision Date:
09/16/2021)

Safety Data Sheet

Complies with Annex II of REACH - Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: 0030230
Name Chemical: OX FIVE PLUS
name and synonyms: OX FIVE PLUS

1.2. Relevant identified uses of the substance or mixture and uses advised against

Sector of use: SU22 – Professional uses
Product category: PC15 – Non-metallic surface treatment products
Description/Usage: Aging alkaline solution for wood

1.3. Details of the supplier of the safety data sheet

Company name: MARBEC SRL
Address: VIA CROCE ROSSA 5/i 51037
City and State: MONTALE (PISTOIA)
ITALY
tel. +039 0573/959848
fax:

e-mail of the competent person,
responsible for the safety data sheet

info@marbec.it**1.4. Emergency telephone number**

For urgent inquiries please contact

MARBEC srl
+390573959848 h8.30am-1pm h2pm-6pm or +393348578502
Telephone number of Poison Control Centers active 24/24 hours
IRCSS Maugeri Foundation –
Pavia 0039-0382-24444
CAV Ospedali Riuniti –
Bergamo 0039-800-883300
CAV Niguarda Ca` Granda Hospital –
Milan 0039-02-66101029
CAV Careggi Hospital - Florence 0039-055-7947819
CAV Gemelli Polyclinic –
Rome 0039-06-3054343
CAV Umberto I Polyclinic –
Rome 0039-06 49978000
CAV Cardarelli Hospital –
Naples 0039-081 5453333
CAV Integrated Hospital Verona - Verona 800011858

SECTION 2. Hazards identification

2.1. Substance or mixture classification

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The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet that complies with the provisions of Regulation (EU) 2020/878.

Any additional information regarding risks to health and/or the environment is given in sections. 11 and 12 of this sheet.

Hazard classification and indications:

Skin corrosion, category 1A

H314

It causes serious skin burns and serious eye injuries.

Serious eye damage, category 1

H318

Causes serious eye damage.

2.2. Label elements

Hazard labeling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms:



Warnings:

Danger

Indications of danger:

H314

Causes severe skin burns and eye damage.

Precautionary statements:

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P310

Immediately call a POISON CENTER/doctor/...

P301+P330+P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Contains:

SODIUM HYDROXIDE

Product not intended for the uses envisaged by Directive 2004/42/EC.

2.3. Other dangers

Based on available data, the product does not contain PBT or vPvB substances in a percentage $\geq 0.1\%$.

The product does not contain substances having endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients**3.2. Blends**

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Contains:

Identification	x = Conc. % Classification 1272/2008 (CLP)	
SODIUM HYDROXIDE		
CAS 1310-73-2	5 ≤ x < 9	Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318
CE 215-185-5		Skin Corr. 1B H314: γ 2%, Skin Irrit. 2 H315: γ 0.5%, Eye Dam. 1 H318: γ 2%, Eye Irrit. 2H319: γ0.5%
INDEX 011-002-00-6		
REACH Reg. 01-2119457892-27-xxxx		
CALCIUM CHLORIDE DIHYDRATE		
CAS 10035-04-8	1 ≤ x < 3	Eye Irrit. 2H319
CE 233-140-8		
INDEX 017-013-00-2		
REACH Reg. 01-2119494219-28		

The complete text of the danger indications (H) is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening the eyelids wide. Consult a doctor immediately.

SKIN: Take off all contaminated clothing. Take a shower immediately. Consult a doctor immediately.

INGESTION: Drink as much water as possible. Consult a doctor immediately. Do not induce vomiting unless specifically authorized by your doctor.

INHALATION: Call a doctor immediately. Move the person to fresh air away from the scene of the accident. If breathing stops, give artificial respiration. Take appropriate precautions for the rescuer.

4.2. Most important symptoms and effects, both acute and delayed

No specific information on symptoms and effects caused by the product is known.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Fire fighting measures

5.1. Fire fighting

SUITABLE EXTINGUISHING MEANS

Choose the most appropriate extinguishing media for the specific situation.

UNSUITABLE EXTINGUISHING MEANS

No one in particular.

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5.2. Special hazards arising from the substance or mixture**HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE**

The product is not flammable or combustible.

5.3. Recommendations for firefighters**EQUIPMENT**

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and firefighter boots (HO A29 or A30).

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Stop the leak if there is no danger.

Wearing of suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for those involved in the work and for emergency interventions.

6.2. Environmental precautions

Prevent the product from entering sewers, surface waters and groundwater.

6.3. Methods and materials for containment and cleaning up

Suck the spilled product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb remainder with inert absorbent material.

Provide sufficient ventilation of the place affected by the leak. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information regarding individual protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage**7.1. Precautions for Safe Handling**

Ensure an adequate earthing system for plants and people. Avoid contact with eyes and skin. Do not inhale any dusts or vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid dispersion of the product in the environment.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep in a ventilated place, away from sources of ignition. Keep containers hermetically sealed.

Keep product in clearly labeled containers. Avoid overheating. Avoid violent shocks. Store containers away from any incompatible materials, checking section 10.

Storage class TRGS 510 (Germany):
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7.3. Particular end uses

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Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Normative requirements:

ESP	Spain	Professional exhibition limits for chemical agents in Spain 2021
BETWEEN	France	Values limiters of professional exposure to chemical agents in France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	ACGIH 2021

SODIUM HYDROXIDE

Threshold limit value							
Guy	State	TWA/8h		STEL/15min		Note /	
		mg/m3	ppm	mg/m3	ppm	Remarks	
VLA extension	ESP			2			
VLEP extension	BETWEEN	2					
WEL	GBR			2			
TLV-ACGIH				2 (C)			

Health - Derived no-effect level - DNEL / DMEL							
	Effects on consumers				Effects on workers		
Exposure route	Sharp rooms	Acute systemic	Chronic premises	Chronic systemic	Sharp rooms	Acute systemic	Chronic local Chronic systemic
Inhalation			1mg/m3	1mg/m3			1mg/m3 1mg/m3

CALCIUM CHLORIDE DIHYDRATE

Health - Derived no-effect level - DNEL / DMEL							
	Effects on consumers				Effects on workers		
Exposure route	Sharp rooms	Acute systemic	Chronic premises	Chronic systemic	Sharp rooms	Acute systemic	Chronic local Chronic systemic
Inhalation	5mg/m3		2.5mg/m3		10mg/m3		5mg/m3

Legend:

(C) = CEILING ; INALAB = Inhalable Fraction; RESPIR = Respirable Fraction; THORAC = Thoracic fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected; NPI = No Hazards Identified.

8.2. Exposure controls

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local aspiration.
When selecting personal protective equipment, seek advice from your chemical suppliers if necessary.
Personal protective equipment must bear the CE marking which certifies their compliance with current standards.

Provide for an emergency shower with a visor basin.

HAND PROTECTION

Protect your hands with category III work gloves (ref. Directive 89/686/EEC and standard EN 374) such as in PVA, butyl, fluoroelastomer or equivalent.

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-Material: Butyl rubber, PVC, polychloroprene with natural latex coating, material thickness: 0.5 mm, breakthrough time: > 480 min.
- Material: nitrile rubber, fluororubber, material thickness: 0.35-0.4 mm, breakthrough time: > 480 min.
Remarks: for the final choice of work glove material, the following must be considered: compatibility, degradation, breakthrough time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it cannot be foreseen. The gloves have a wear time that depends on the duration and method of use.

SKIN PROTECTION

Wear long-sleeved work clothes and category III professional safety footwear (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is advisable to wear a hooded visor or protective visor combined with airtight goggles (ref. standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is advisable to wear a mask with a type B filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration for use. (ref. standard EN 14387). If gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) are present, it is necessary to provide combined type filters.

The use of respiratory protection means is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. However, the protection offered by masks is limited.

In the event that the substance in question is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air respirator (ref. standard EN 137) or a plug-in respirator external air (ref. standard EN 138). For the correct choice of respiratory protection device, refer to the EN 529 standard.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Information
Physical state	liquid	
Color		Note: After shaking the product
Odor	odorless white	
Melting or freezing point	Not available	
Initial boiling point	Not available	
Flammability	incombustible	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 90°C	
Self-ignition temperature	Not applicable	
pH	14	
Kinematic viscosity	Not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapor pressure	Not available	
Density and/or Relative Density	1.07 kg/l	
Relative vapor density	Not available	
Particle characteristics	Not applicable	

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9.2. More info

9.2.1. Information relating to classes of physical hazards

Information not available

9.2.2. Other security features

VOC (Directive 2010/75/EU)	0 gr/lt
Explosive properties	not explosive
Oxidizing properties	non-oxidant

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Under normal conditions of use and storage, dangerous reactions are not foreseeable.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions for chemical products.

10.5. Incompatible materials

SODIUM HYDROXIDE

Incompatible with: strong acids, ammonia, zinc, lead, aluminum, water, flammable liquids.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on the hazard classes defined in Regulation (EC) no. 1272/2008

Metabolism, kinetics, mechanism of action and other information

Information not available

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Information on likely routes of exposure

Information not available

Immediate, delayed and chronic effects resulting from short and long term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no relevant component)
ATE (Oral) of the mix:	Not classified (no relevant component)
ATE (Dermal) of the mixture:	Not classified (no relevant component)

SODIUM HYDROXIDE	
LD50 (Dermal):	1350 mg/kg Rat
LD50 (Oral):	1350 mg/kg Rat

CALCIUM CHLORIDE DIHYDRATE	
LD50 (Dermal):	> 5000 mg/kg Rat
LD50 (Oral):	2301 mg/kg Rat

SKIN CORROSION / SKIN IRRITATION

Corrosive to the skin

SERIOUS EYE DAMAGE / EYE IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITIZATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

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Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Harmful effects on offspring development

Information not available

Effects on or through breastfeeding

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

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Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

DANGER IN CASE OF ASPIRATION

Does not meet the classification criteria for this hazard class

11.2. Information about other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

SECTION 12. Ecological information

12.1. Toxicity

CALCIUM CHLORIDE DIHYDRATE

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LC50 - Fish	4630 mg/l/96h Pimephases promelas
EC50 - Crustaceans	2400 mg/l/48h Daphnia magna
EC50 - Algae / Aquatic Plants	2900 mg/l/72h Selenastrum capricornutum

12.2. Persistence and degradability

SODIUM HYDROXIDE	
Solubility in water	> 10000 mg/l
Degradability: data not available	

CALCIUM CHLORIDE DIHYDRATE	
Solubility in water	> 10000 mg/l
Degradability: data not available	

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Based on available data, the product does not contain PBT or vPvB substances in a percentage \geq 0.1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment being evaluated.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste which partially contains this product must be evaluated on the basis of the legislative provisions in force.
Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local legislation.
Transportation of waste may be subject to ADR.

CONTAMINATED PACKAGING
Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

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SECTION 14. Transportation Information

14.1. UN number or ID number

ADR / RID, IMDG, 3266
IATA:

14.2. UN proper shipping name

ADR / RID: CORROSIVE, BASIC, INORGANIC LIQUID, NOS (SODIUM HYDROXIDE SOLUTION)
IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, NOS (SODIUM HYDROXIDE SOLUTION).
IATA: CORROSIVE LIQUID, BASIC, INORGANIC, NOS (SODIUM HYDROXIDE SOLUTION).

14.3. Transport hazard classes

ADR / RID: Class: 8 Tag: 8
IMDG: Class: 8 Tag: 8
IATA: Class: 8 Tag: 8



14.4. Packing group

ADR / RID, IMDG, III
IATA:

14.5. Dangers to the environment

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN-Kemler: 80	Amount Limited: 5 L	Code of restriction into gallery: (E)
IMDG:	Special provision: 274 EMS:FA,SB	Amount Limited: 5 L Maximum quantity: 60 L	Instructions Packing: 856
IATA:	Cargo:	Maximum quantity: 5L	Instructions Packing: 852
	Pass.:	A3, A803	
	Special Arrangement:		

14.7. Shipping in bulk in accordance with IMO acts

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Irrelevant information

SECTION 15. Regulatory Information**15.1. Safety, health and environmental laws and regulations specific to the substance or mixture**

Seveso category - Directive 2012/18/EU: None

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006

<u>Product</u>	
Point	3

Substances contained

Point	75
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Regulation (EU) 2019/1148 - concerning the placing on the market and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)Based on the data available, the product does not contain SVHC substances in a percentage $\geq 0.1\%$.Substances subject to authorization (Annex XIV REACH)

None

Substances subject to export notification obligation Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out according to the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the worker's health and safety has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has been drawn up for the following substances contained in the mixture:
Sodium hydroxide, Calcium chloride dihydrate.

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SECTION 16. Other information

Text of the danger indications (H) mentioned in sections 2-3 of the sheet:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
H290	May be corrosive to metals.
H314	It causes serious skin burns and serious eye injuries.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

LEGEND:

- ADR: European agreement for the carriage of dangerous goods by road
- CAS: Chemical Abstract Service Number
- CE: Identification number in ESIS (European Archive of Existing Substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Concentration that affects 50% of the population tested
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for the classification and labeling of chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilisation of 50% of the test population
- IMDG: International Maritime Code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Level of occupational exposure
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation for the international transport of dangerous goods by train
- STA: Acute Toxicity Estimate
- TLV: Threshold Limit Value -
- TLV CEILING: Concentration which must not be exceeded during any moment of occupational exposure.
- TWA: Weighted Average Exposure Limit -
- TWA STEL: Short Term Exposure Limit - VOC: Volatile
- Organic Compound - vPvB: Very persistent and very bioaccumulating according to REACH - WGK: Aquatic hazard class (Germany).

GENERAL BIBLIOGRAPHY: 1.

- Regulation (EC) 1907/2006 of the European Parliament (REACH)
- 2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
- 3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
- 4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
- 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
- 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
- 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
- 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
- 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
- 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
- 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)

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- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148 18.

Delegated regulation (EU) 2020/217 (XIV Atp. CLP)

19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)

20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)

21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)

- The Merck Index. - 10th Edition -

Handling Chemical Safety -

INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology - NI

Sax - Dangerous properties of Industrial Materials-7, 1989 Edition - IFA GESTIS

website - ECHA Agency

website - Database of SDS

models of chemical substances - Ministry of Health and Istituto Superiore di Sanità

Note for the user: The

information contained in this sheet is based on the knowledge available to us on the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use.

Provide adequate training to personnel involved in the use of chemical products.

METHODS FOR CALCULATION OF THE CLASSIFICATION

Physical and chemical hazards: The classification of the product has been derived from the criteria established by the CLP Regulation Annex I Part 2. The methods of evaluation of the physical and chemical properties are reported in section 9.

Health hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes from the previous revision Changes have

been made to the following sections: 01 / 02 / 03 / 09 / 11 / 12 / 14 / 15 / 16.